PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference P802442/WO/01	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/EP2004/009380	International filing date (day/month/year) 21 August 2004 (21.08.2004)	Priority date (day/month/year) 11 September 2003 (11.09.2003)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant DAIMLERCHRYSLER AG				

		•			
1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).				
2.	This REPORT consists of a total of 8 sheets, including this cover sheet.				
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.				
3.	3. This report contains indications relating to the following items:				
	Box No. I	Basis of the report			
	Box No. II	Priority			
	Box No. III	Non-establishment of opin applicability	tion with regard to novelty, inventive step and industrial		
	Box No. IV	Lack of unity of invention			
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI	Certain documents cited	·		
	Box No. VII	Certain defects in the international application			
	Box No. VIII	Certain observations on the	e international application		
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).				
			Date of issuance of this report 03 July 2006 (03.07.2006)		
	The International Bure		Authorized officer		
	34, chemin des Col	lombettes	Yolaine Cussac		

e-mail: ptl 1@wipo.int

Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

1211 Geneva 20, Switzerland

PATENT COOPERATION TREATY

From the INTERNATION	NAL SEARCHING AUTHOR	ITY		an.
То:				PCT Canalian
				TITTEN OPINION OF THE ONAL SEARCHING AUTHORITY
		- 4		(PCT Rule 43bis.1)
	/		Date of mailing (day/month/year)	See form PCT/ISA/210
1	gent's file reference		FOR FURTHER A	
P802442			See paragraph 2 below	
International ap	·	International filing date (day/month/year)	Priority date (day/month/year)
PCT/EP	2004/009380	21.08.2004		11.09.2003
	tent Classification (IPC) or both /02, H02J7/14			
	RCHRYSLER AG			
1. This c	ppinion contains indications rela	iting to the following items	S:	
	Box No. I Basis of the	opinion	•	•
	Box No. II Priority	•		
	Box No. III - Non-establi	shment of opinion with re	gard to novelty, inventi	ive step and industrial applicability
Box No. IV Lack of unity of invention				
	Box No. V Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
	Box No. VI Certain doc	uments cited		
	Box No. VII Certain defe	ects in the international app	plication	
	Box No. VIII Certain obs	ervations on the internation	nal application	
2. FUR	THER ACTION			
Internation	If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.			
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
	For further options, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220.			
Name and mail	ing address of the ISA/EP		Authorized officer	
		•		
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Box	к No. I Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language
	, which is the language of a translation furnished for the purposes of international search (under
	Rule 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material
	a sequence listing
	table(s) related to the sequence listing
	b. format of material
	in written format
	in computer readable form
	c. time of filing/furnishing
	contained in the international application as filed.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:
	·

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Bo	x No. II	Priority
. 1.	Cons	following document has not yet been furnished: copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)). translation of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(b)). equently it has not been possible to consider the validity of the priority claim. This opinion has nevertheless been established on sumption that the relevant date in the claimed priority date.
2.	(Rul	opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid as 43bis.1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the rant date.
3.	Additional	observations, if necessary:
	,	·
		·
		·

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Box		tatement under Rule 43bls.1(a)(i) with regard to novelty, inventive step or industrial applicability; d explanations supporting such statement	
1.	Statement		
	Novelty (N)	Claims 2-9	YES
		Claims 1	NO
	Inventive step (IS)	Claims 2-9	YES
		Claims 1	NO
	Industrial applicability	(IA) Claims 1-9	YES
		Claims	NO
2.	Citations and explanations		
	1. This op	inion makes reference to the following	
	documen	ts:	
	D1: E	P 1 293 388 A (AUDI NSU AUTO UNION AG) 19	
	March 2	003 (2003-03-19)	
	D2: E	P 0 992 400 A (VOLKSWAGENWERK AG) 12 April	
	2000 (2	000-04-12)	
	D3: E	CP 0 997 340 A (ABB RESEARCH LTD) 3 May 2000	
	(2000-0	5-03)	
	D4: W	WEST M J ET AL: "Predictive control for energy	
	managem	ent in allimore electric vehicles with	
	multipl	e energy storage units"_CONFERENCE	
	PROCEED	INGS ARTICLE, vol. 1, 1 June 2003 (2003-06-	
	01), pa	ges 222-228, XP010644429	
	2. Documen	t D1 is considered to be the closest prior	
		discloses (the references between	
		eses relate to this document):	
	parenen	is the second of	
	A metho	d for energy management, in particular for	
	energy	management of the on-board electrical system	
	of a ve	hicle with a generator, at least one energy	
	store a	nd loads which can be divided into a	
	plurali	ty of classes,	

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

comprising the steps of

identifying the state of the generator and energy store or stores (page 2, line 32, algorithm), determining the amount of energy available in a subsequent time interval from the identified state data relating to the generator and energy store or stores (page 2, lines 37, 38, "... power or overload is predicted ..."),

receiving switch-on requests from loads for the subsequent time interval (page 2, lines 40 to 42, "... at the times ... at which a load wants to switch on ..."),

identifying the amount of energy required in the subsequent time interval on the basis of switch-on requests (page 2, lines 37 to 43),

checking whether the amount of energy required is greater than the amount of energy available (page 2, line 42, "... whether a switch-on process is critical ..."),

meeting all of the switch-on requests of the loads in the subsequent time interval when enough energy is available, or, when enough energy is not available, selecting a load or loads which is/are to be switched on in the subsequent time interval in accordance with the amount of energy available and a priority and a tolerance time of the corresponding loads (page 2, lines 44 to 47, "... priority ..." and page 3, lines 47 to 56, "... to a delayed increase ...").

The "delayed increase" disclosed in D1 is interpreted here as a tolerance time as per the

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

wording of claim 1.

- 2.1 All of the features of claim 1 are therefore already known from the disclosure of $\underline{D1}$. The subject matter of claim 1 therefore does not meet the requirements of PCT Article 33(1) and (2).
- 2.2 The combination of features contained in dependent claim 2 is neither known from the available prior art nor suggested by it.
- 2.3 <u>Claims 3-9</u> are dependent on claim 2 and therefore, in as much as they are dependent on claim 2, likewise meet the PCT requirements for novelty and inventive step.

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Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

- 1. Clarity PCT Article 6
- 1.1 The application does not meet the requirements of PCT Article 6 because claim 1 is not clear. Claim 1 claims two alternatives on account of the "or" before the last method step. However, the paragraph bridging pages 2 and 3 of the description states that the last method step of claim 1 is an essential part of the invention. This results in an inconsistency between the description and the wording of the claims. The subject matter of claim 1 is therefore not clear within the meaning of PCT Article 6.
- 1.2 The term "class II" used in <u>claim 4</u> does not have a generally recognized meaning and leaves the reader uncertain as to the meaning of the technical feature in question. As a result, the subject matter of said claim/claims is not clearly defined (PCT Article 6).